

Appl. No. 09/837,493
Amdt. Dated
Reply to Office action of February 24, 2005
Attorney Docket No. P13426-US1
EUS/JP/05-xxxx

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-23. (Canceled)

24. (Currently Amended) A method of processing a media stream streaming media in a communications system that includes an Internet Protocol (IP) network, the method comprising the steps of:

configuring a service for providing [[a]] the media stream to a first entity, by addressing sending a request message to a gateway controller having a known Uniform Resource Identifier (URI) and the request message including information relevant to the first entity;

Initiating the media stream for a session between the first entity and a second entity, with the first entity receiving, and the second entity sending the media stream via a data first path that includes a gateway that is coupled to the IP network, the gateway being managed by the gateway controller;

negotiating a specific format for a component of the media stream between that is acceptable to the first and second entities for each component of the media stream, wherein a component of the media stream with an unacceptable format is converted to an acceptable format by the gateway prior to forwarding the component with an unacceptable format to the first entity;

invoking the gateway controller, via a second path that is separate from the first path carrying the media stream, to cause the gateway to process the media stream received from the second entity;

processing each component of the media stream according to the negotiated formats; and

sending the media stream, including the processed components, on to the first entity.

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25. (Currently Amended) The method of claim 24, wherein the session, comprises the media stream, begins when a connection is established between the first and second entities and terminates when the connection ends;

the step of configuring a service is performed by the first entity sending a service request message from the first entity to the gateway controller; and
the media stream comprises more than one component.

26. (Currently Amended) The method of claim 25, wherein the service request message includes necessary address information for the first entity an address for receiving the media stream.

27. (Currently Amended) The method of claim 24, wherein a voice component of the media stream is a Global System for Mobile communications (GSM) voice component, the media stream and the voice component [[is]] being directed to the first entity via the IP network.

28. (Currently Amended) The method of claim 24, wherein a video component of the media stream [[is]] in Motion Pictures Expert Group (MPEG) format and the video component is directed to the first entity via the IP network and if the format of the video component is unacceptable to the first entity the video component is sent to the gateway for conversion before forwarding the video component to the first entity.

29. (Currently Amended) The method of claim 24, further comprising the step of the first entity sending a control protocol to the gateway controller to configure the service for providing the media stream to the first entity.

30. (Currently Amended) The method of claim 25 [[24]], wherein the service request message includes the type of service requested.

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31. (Currently Amended) The method of claim 25 [[24]], further comprising the step of

responding to the service request message including address information associated with the gateway in the form of an IP address and a port number.

32. (Currently Amended) The method of claim 28 further comprising:
the second entity transmitting the media stream over the IP network to the gateway; wherein

processing the video component of the media stream; is processed and then transferring the video component from transferred via the gateway to the first entity.

33. (Currently Amended) The method of claim 27, further comprising transferring the voice component, unmodified, over the IP network via the gateway directly between the second and first entity.

34. (Currently Amended) The method of claim 24, wherein the first entity is a mobile terminal and the second entity is one of a terminal, a content server and an end user serving terminal.

35. (Currently Amended) The method of claim 24, wherein the URI of the gateway controller provides availability of external control by [[an]] any communications entity having knowledge of the URI.

36. (Currently Amended) A communication system, that includes an Internet Protocol (IP) network, for processing a media stream streaming media, comprising:

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means for configuring a service for providing [[a]] the media stream to a first entity by signaling addressing a gateway controller having a known Uniform Resource Identifier (URI) and including relevant information pertaining to the first entity;

a gateway, managed by the gateway controller and coupled to the IP network for providing a service for processing at least one component of the media stream, wherein the gateway is managed by the gateway controller; means for initiating the media stream for a session between the first entity and a second entity, with the first entity receiving, and the second entity sending the media stream over the IP network via a first path that includes the gateway;

means for negotiating a specific format for each component of the media stream between that is acceptable to the first and second entities, wherein a component with an unacceptable format is converted to an acceptable format by the gateway prior to forwarding the component to the first entity;

means for invoking the gateway controller, by a second path that is separate from the first path, to cause the gateway to process the media stream received from the second entity;

means for processing the at-least-one component of the media stream according to the negotiated format formats; and

means for sending the associated media stream including the processed components on to the first entity.

37. (Currently Amended) The communication system of claim 36, wherein the session, comprising the media stream, begins when the connection is established between the first and second entities and terminates when the connection ends:

the means for configuring the service for providing the media stream further comprises means in the gateway controller for receiving a [[the]] service request message from [[by]] the first entity; and

the media stream comprises more than one component, wherein a component is one of data, video and audio.

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38. (Previously Presented) The communication system of claim 37 [[36]], wherein the service request message includes an address necessary address information for receiving the media stream at the first entity.

39. (Currently Amended) The communication system of claim 36, wherein a voice component of the media stream is a Global System for Mobile communications (GSM and the voice component, the media stream and the voice component being [[is]] directed to the first entity via [[a]] the first path .

40. (Currently Amended) The communication system of claim 36, wherein a video component of the media stream [[is]] in Motion Pictures Expert Group (MPEG) format and the video component is directed to the first entity via the IP network and if the format of the video component is unacceptable to the first entity the video component is sent to the gateway for conversion before forwarding the video component to the first entity.

41. (Currently Amended) The communication system of claim 36, further comprising the step of means for the first entity sending a control protocol to the gateway controller to configure the service for providing the media stream to the first entity.

42. (Currently Amended) The communication system of claim 36, wherein the service request message includes the type of service requested.

43. (Currently Amended) The communication system of claim 36 further comprising means for responding to the service request including address information associated with the gateway in the form of an IP address and a port number.

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44. (Currently Amended) The communication system of claim 36, wherein the gateway further comprises means for processing a video component of the media stream and means for transferring the processed video component of the media stream over the IP network via the first path from the gateway to the first entity.

45. (Currently Amended) The communication system of claim 39, further comprising means for transferring the voice component, unmodified, over the IP network via the gateway directly between the second and first entity.

46. (Currently Amended) The communication system of claim 36, wherein the first entity is a mobile terminal and the second entity is one of a terminal, a content server and an end user serving terminal.

47. (Currently Amended) The communication system of claim 36, wherein the URI of the gateway controller provides availability of external control by any communication entity having knowledge of the URI.

48. (New) A node, in a communications system that is coupled with an Internet Protocol (IP) network, for processing a media stream, the node comprising:

a gateway controller, having a known Uniform Resource Identifier (URI) for controlling;

a gateway for providing the media stream to a first entity and for processing at least one component of the media stream for a session between the first entity and a second entity, with the first entity receiving, and the second entity sending the media stream over the IP network via a first path that includes the gateway;

means for negotiating a specific format for the at least one component of the media stream between the first and second entities, wherein a component with an

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unacceptable format is converted to an acceptable format by the gateway prior to forwarding the component to the first entity;

means for receiving an invoking signal at the gateway controller, by a second path that is separate from the first path, to cause the gateway to process the media stream received from the second entity on the first path;

means for processing the at least one component of the media stream according to the specific format; and

means for sending the media stream including processed components on to the first entity via the first path.

49. (New) The node of claim 48, wherein the session, comprising the media stream, begins when the connection is established between the first and second entities and terminates when the connection ends;

the means for configuring the service for providing the media stream further comprises means in the gateway controller for receiving a service request message sent by the first entity; and

the media stream comprises more than one component, a component in the media stream being one of data, video and audio.

50. (New) The node of claim 48, wherein the service request message includes an address for receiving the media stream.

51. (New) The node of claim 48, wherein the media stream is a Global System for Mobile communications (GSM) media stream and includes a voice component, the media stream being directed to the first entity via the first path.

52. (New) The node of claim 48, wherein a video component of the media stream in Motion Pictures Expert Group (MPEG) format is directed to the first entity via the IP network and if the format of the video component is unacceptable to the first

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entity the video component is sent to the gateway for conversion before forwarding the video component to the first entity.

53. (New) The node of claim 48, further comprising means for the gateway controller receiving a control protocol from the first entity to configure the service for providing the media stream to the first entity.

54. (New) The node of claim 48, wherein the service request message includes the type of service requested.

55. (New) The node of claim 48 wherein the gateway controller further comprises

means for responding to the service request message wherein the response includes address information associated with the gateway in the form of an IP address and a port number.

56. (New) The node of claim 51, further comprising means for transferring the voice component, unmodified, over the IP network via the gateway between the second and first entity.

57. (New) The node of claim 48, wherein the first entity is a mobile terminal and the second entity is one of a terminal, a content server and an end user serving terminal.

58. (New) The node of claim 48, wherein the URI of the gateway controller provides availability of external control by any communications entity having knowledge of the URI.